	Application No.	Applicant(s)	
Notice of Allowability	10/792,335	VAN BROCKLIN ET	ΑI
	Examiner	Art Unit	
	Jack Dinh	2873	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate comministrication is second control of the comministrication is second control of the contro	n this application. If not included unication will be mailed in due c	d ourse. THIS
1. X This communication is responsive to 04/19/04.	•		
2. ☑ The allowed claim(s) is/are <u>42-60</u> .			
3. The drawings filed on are accepted by the Examin	er.		
4. ☐ Acknowledgment is made of a claim for foreign priority (a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gift. 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") mages in the content of the priority of th	ve been received. ve been received in Application comments have been received. Tof this communication to file MENT of this application. mitted. Note the attached EX ves reason(s) why the oath o	on No d in this national stage application e a reply complying with the requ AMINER'S AMENDMENT or NO	uirements
(a) ☐ including changes required by the Notice of Draftspe		w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_·		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date 0605.	r's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			pack) of
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 			ote the
Attachment(s)			
1. Motice of References Cited (PTO-892)	_	formal Patent Application (PTO	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948	Paper No.	ummary (PTO-413), /Mail Date <u>0605</u> .	
 Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date <u>0405</u> Examiner's Comment Regarding Requirement for Deposit 	·	Amendment/Comment Statement of Reasons for Allow	vance
of Biological Material	9. Other	<u>-</u>	
Supervise	on Parent Examiner blogy Center 2800		
U.S. Patent and Trademark Office	Judy		

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Charles Lyon on 06/08/05. The application has been amended as follows:

In the claims:

Claims 1-41. (cancelled).

Claim 42. (currently amended) A method of forming or erasing an image on a rewritable medium for visual display comprising an electrophoretic coating on a substrate, wherein the electrophoretic coating comprises microcapsules comprising charged particles of one or more colors suspended in a phase change material that has a melting temperature in the range of between about 30°C and about 200°C, wherein particles of at least one color have a positive or a negative charge, and a polymer matrix, wherein the microcapsules are distributed in the polymer matrix Claim 18, comprising the steps of:

- a) heating a first section of the electrophoretic coating that comprises one or more picture elements, thereby liquefying the phase change material in the first section;
- b) applying a directional electric field to each picture element of the heated section, thereby causing the charged particles in the liquefied phase change material to migrate;
- c) allowing the first section of the electrophoretic medium to cool, thereby solidifying the phase change material in the first section; and

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d) optionally repeating the steps a) through c) at one or more different sections of the

electrophoretic coating.

Claims 61-72. (cancelled).

REASONS FOR ALLOWANCE

2. Claims 42-60 are allowed. The following is a statement of the Examiner's reasons for

allowance. The present application relates to a microcapsule that can be used to form a

rewritable medium for visual displays. Regarding claim 42, the prior art fails to disclose that the

charged particles is suspended in a phase change material having a melting temperature between

30-200 degree Celsius in combination with the steps of heating and liquefying the phase change

material before applying electric field to migrate the charged particles, and allowing the phase

change material to cool and solidify thereafter. The claimed invention is therefore considered to

be in condition for allowance as being novel and non-obvious over prior art.

3. The prior art taken either singly or in combination fails to anticipate or fairly suggest the

limitations of the independent claims, in such a manner that a rejection under 35 USC 102 or 103

would be improper. Any comments considered necessary by applicant must be submitted no

later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement

of Reasons for Allowance."

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Drawings

4. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because they contain informal hand marks. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Other Information/Remarks

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Dinh whose telephone number is 571-272-2327. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jack Dinh

Supervisory Patent Examiner Technology Center 2800

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